



Mississippi River and Tributaries

- 41% of all water in U.S.
- World's 3rd largest watershed
- MR&T system includes over 2200 miles of levees and floodwalls



Mississippi River and Tributaries

Percentage of Flow

Upper Mississippi

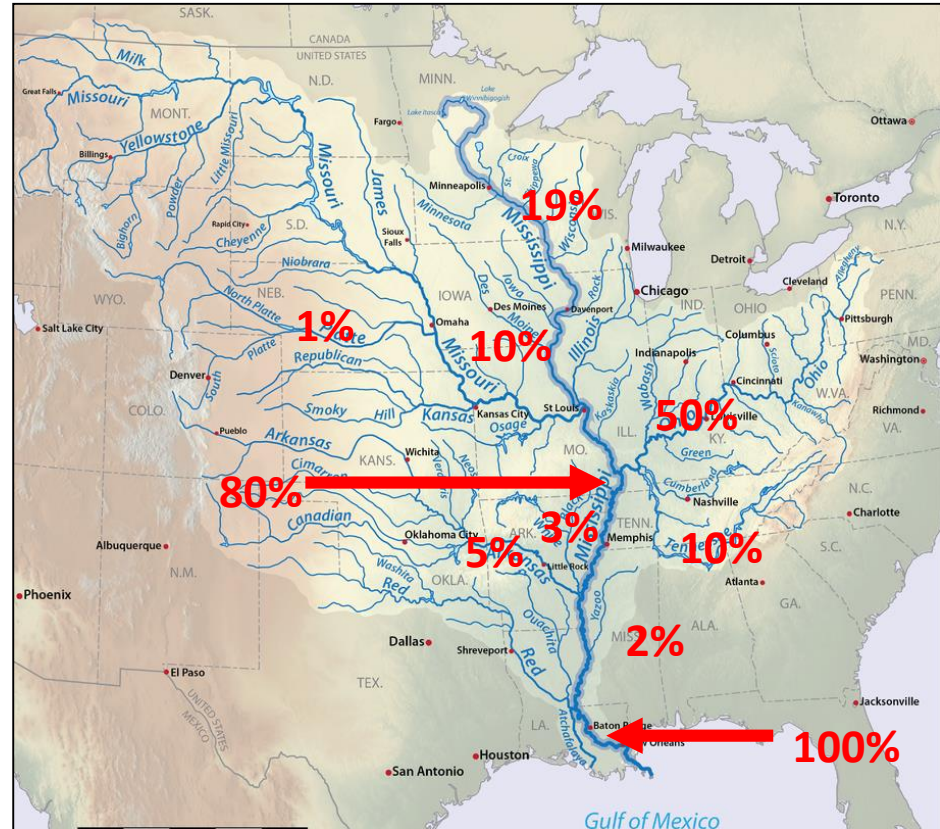
80%

Platte – 1%
Missouri – 10%
Mississippi – 19%
Ohio – 50%

Lower Mississippi

20%

White – 3%
Tennessee – 10%
Arkansas – 5%
Yazoo – 2%



Lower Mississippi Flood Potential Summary

National Weather Service

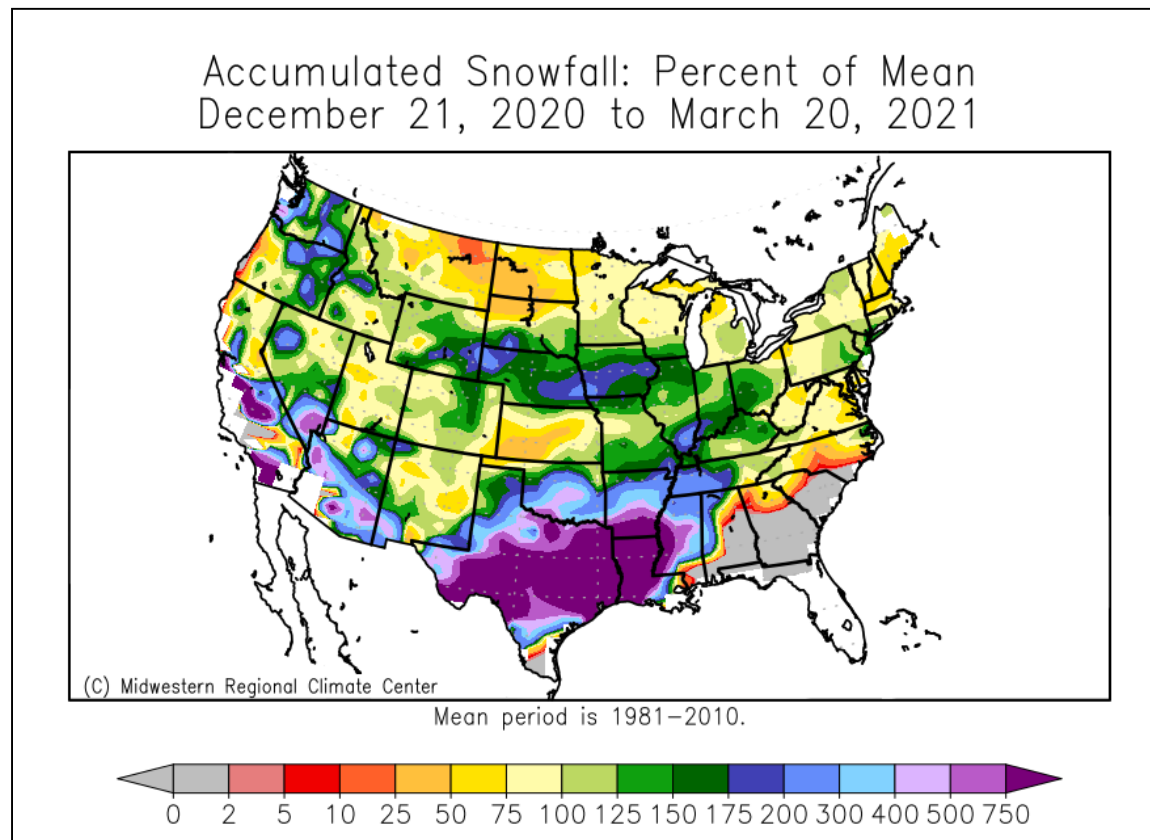
- Flood risk can be characterized as **near normal** over the Lower Mississippi and Tennessee Valleys.
- **Minor flooding** with isolated **moderate flooding** is possible for portions of the Lower Mississippi, Lower Ohio, and Atchafalaya Basins.
- **Minor flooding** with isolated **moderate flooding** is possible over the remaining tributaries in the Lower Mississippi Valley.
- Snowmelt is not a significant factor this year. The frequency, intensity, and extent of rainfall will ultimately determine the final outcome of flood risk for this Spring.



Winter Snowfall

Midwestern Regional Climate Center

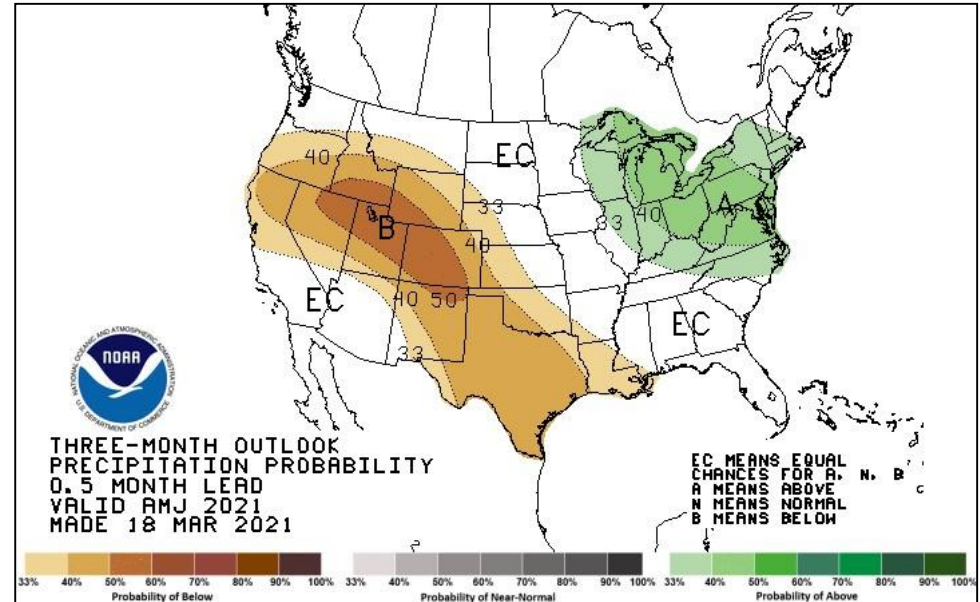
- Snowmelt is not a significant factor this year



Precipitation Probability – Three Month Outlook

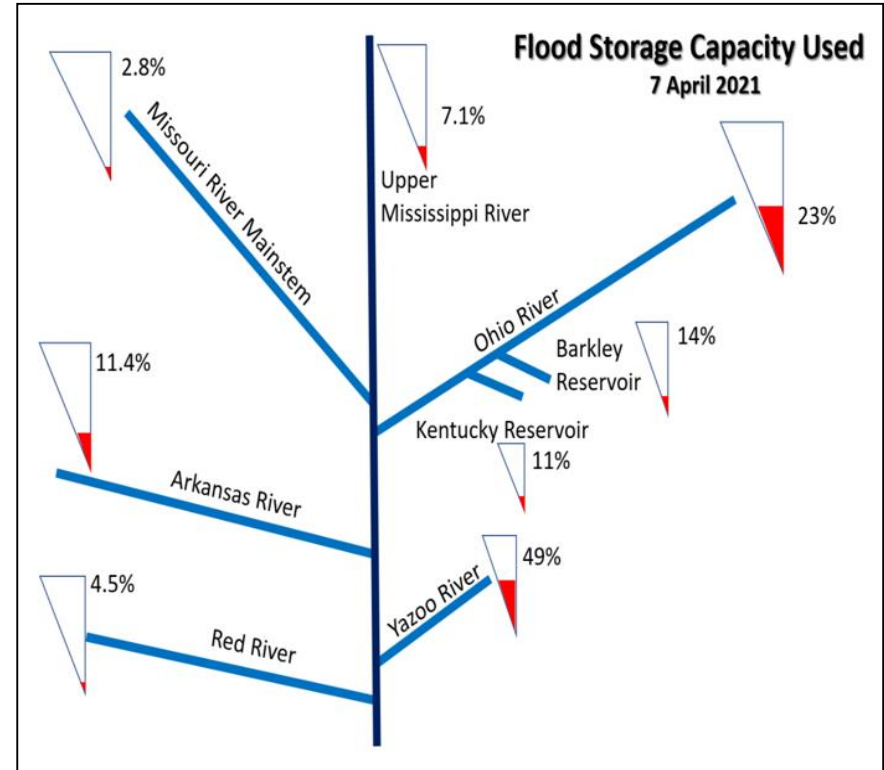
Climate Prediction Center

- Frequency, intensity, and extent of rainfall will determine flood risk this spring
- Low confidence in precipitation chances for central areas
- Above normal for Ohio River basin
- Below normal for Red River basin



USACE Flood Storage Capacity

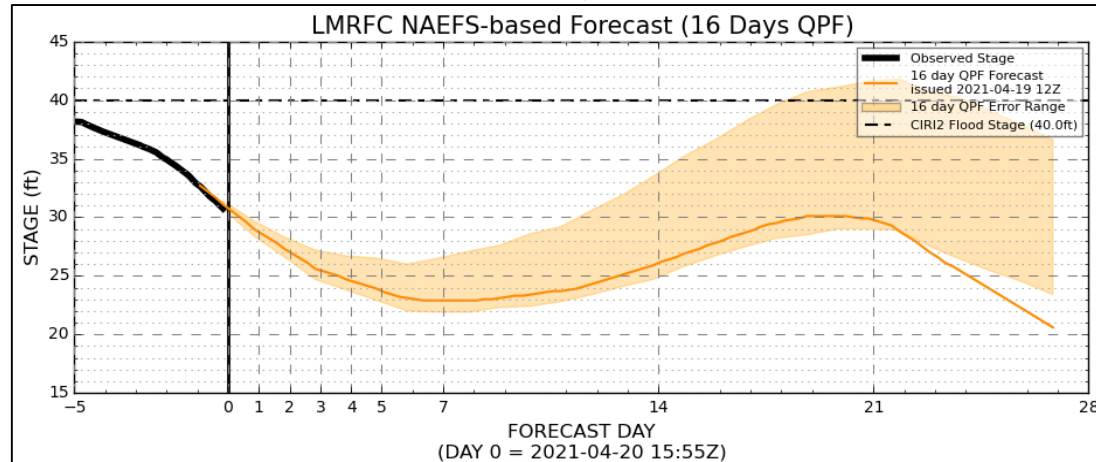
- USACE manages the water through the Mississippi system
- Available flood storage capacity is similar to last year
- Flood control projects have available flood storage capacity throughout the system



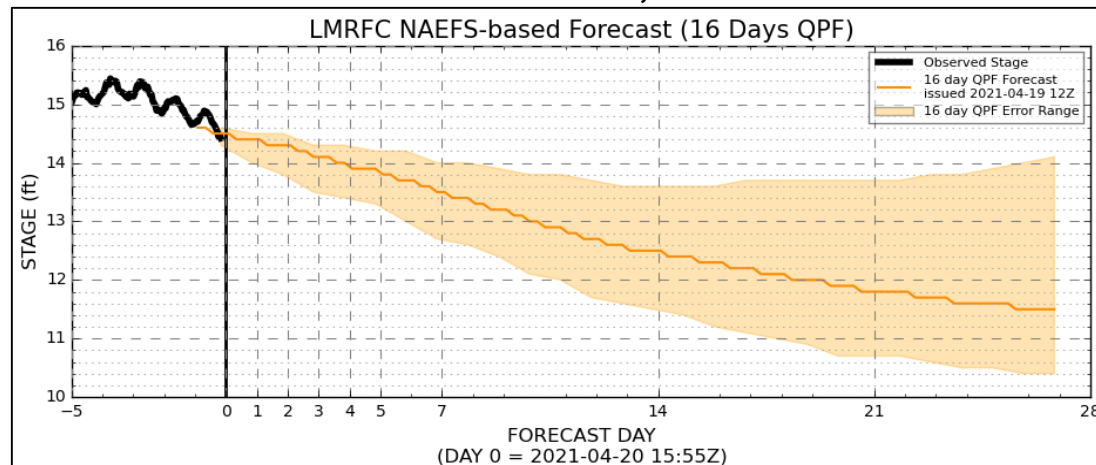
Mississippi River 28-Day Forecast

National Weather Service

Cairo, IL

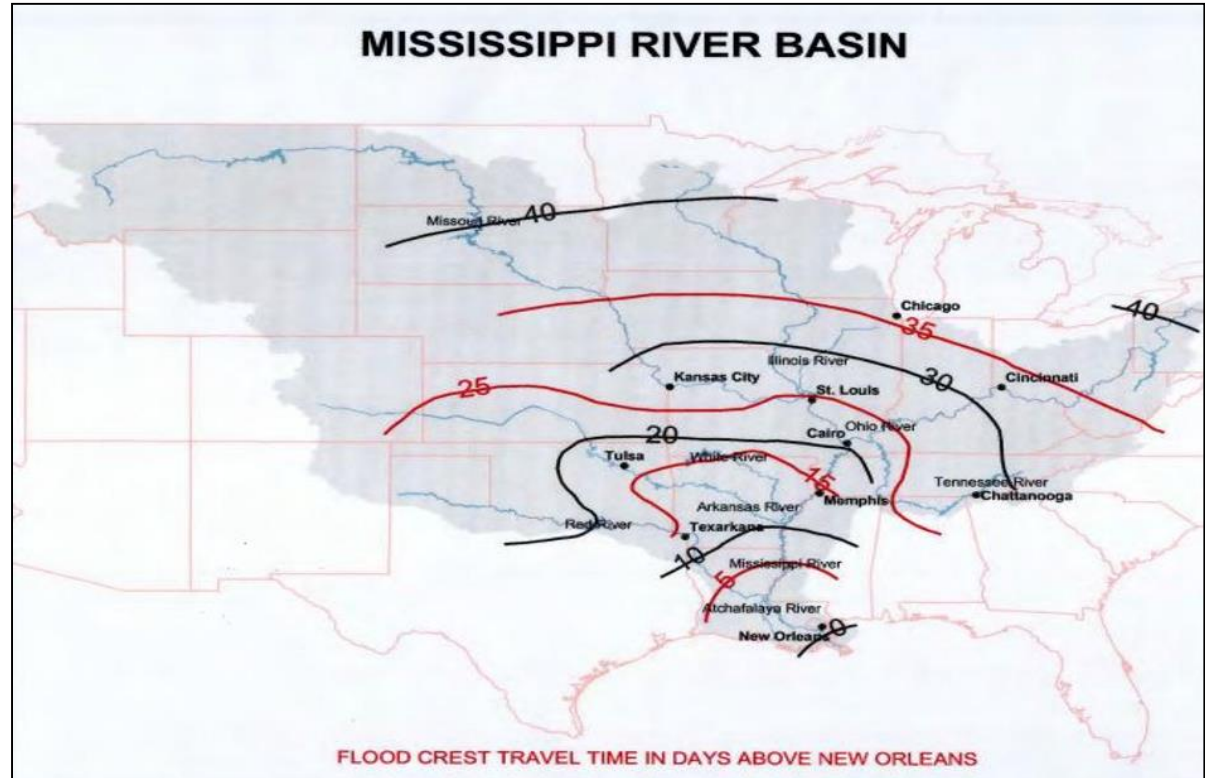


New Orleans, LA



Flood Crest Travel Times

- 40 days: Upper Mississippi and Ohio River basins to New Orleans
- 10 days: Arkansas River to New Orleans
- 5 days: Northern Louisiana to New Orleans





Consecutive Days Above Flood Stage

Lower Mississippi River Forecast Center

Current data as of Jun 26, 2020

Forecast Location	Record (Days/Year)	2020 (Days/Period)	2019 (Days)	1973 (Days)	1927 (Days)
Cairo, IL	156 2019	97 Feb 7 th – May 13 th	156	97	76
Memphis, TN	65 1927	16 Mar 28 th – Apr 12 th	39	64	65
Arkansas City, AR	197 1927	37 Mar 24 th – Apr 29	94	72	197
Greenville, MS	155 2019	41 Mar 23 rd – May 2 nd	155	71	115
Vicksburg, MS	185 1927	96 Feb 13 th – May 20 th	162	83	185
Natchez, MS	215 2019	160 Jan 14 th – Jun 21 st	215	90	77
Red River Landing, LA	227 2019	165 Jan 13 th – Jun 25 th	227	95	152
Baton Rouge, LA	211 2019	156 Jan 18 th – Jun 21 st	211	99	135

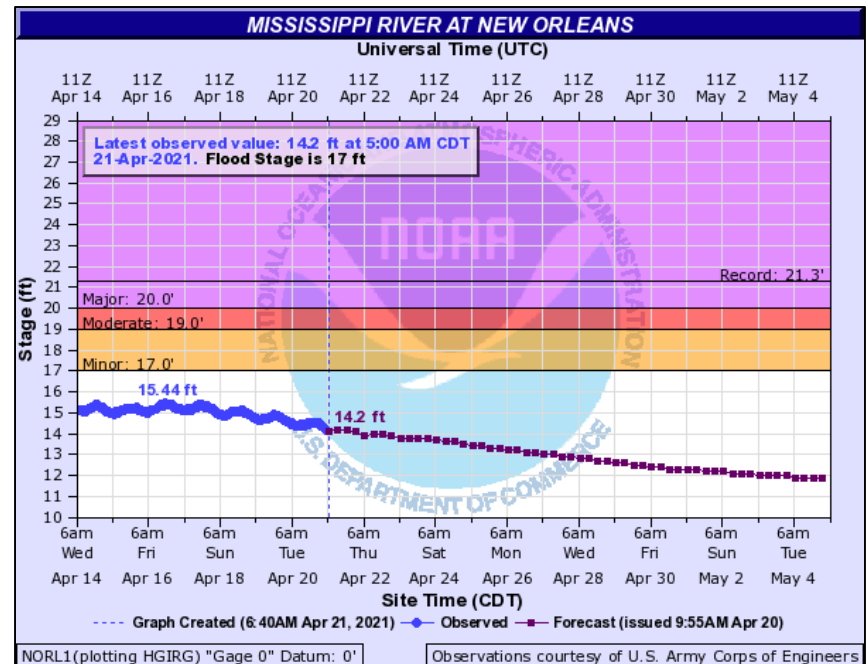
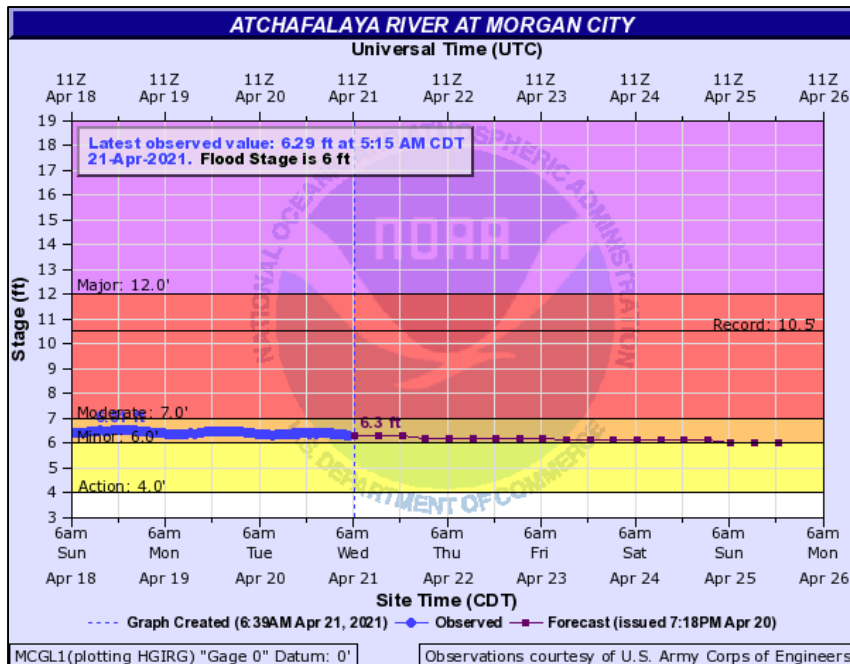
Numbers in **Red** are records for 2019

Data provided by U.S. Army Corps of Engineers



Lower Mississippi River Hydrographs

National Weather Service



Flood Fight Triggers

Phase I

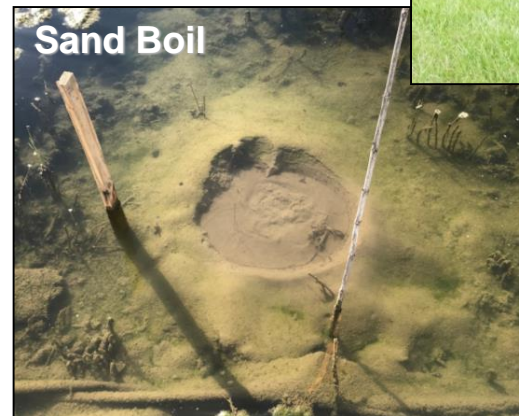
- Mississippi River: 11 feet and rising at Carrollton Gauge
- Teams inspect the levee system 1-2 times per week
- Permitted work within 1500-ft of levee center line needs waiver



Flood Fight Triggers

Phase II

- Mississippi River: 15 feet and rising at Carrollton Gauge
- Teams inspect the levee system daily (973 miles)
- All excavations within 1500-ft of the levee centerline must stop



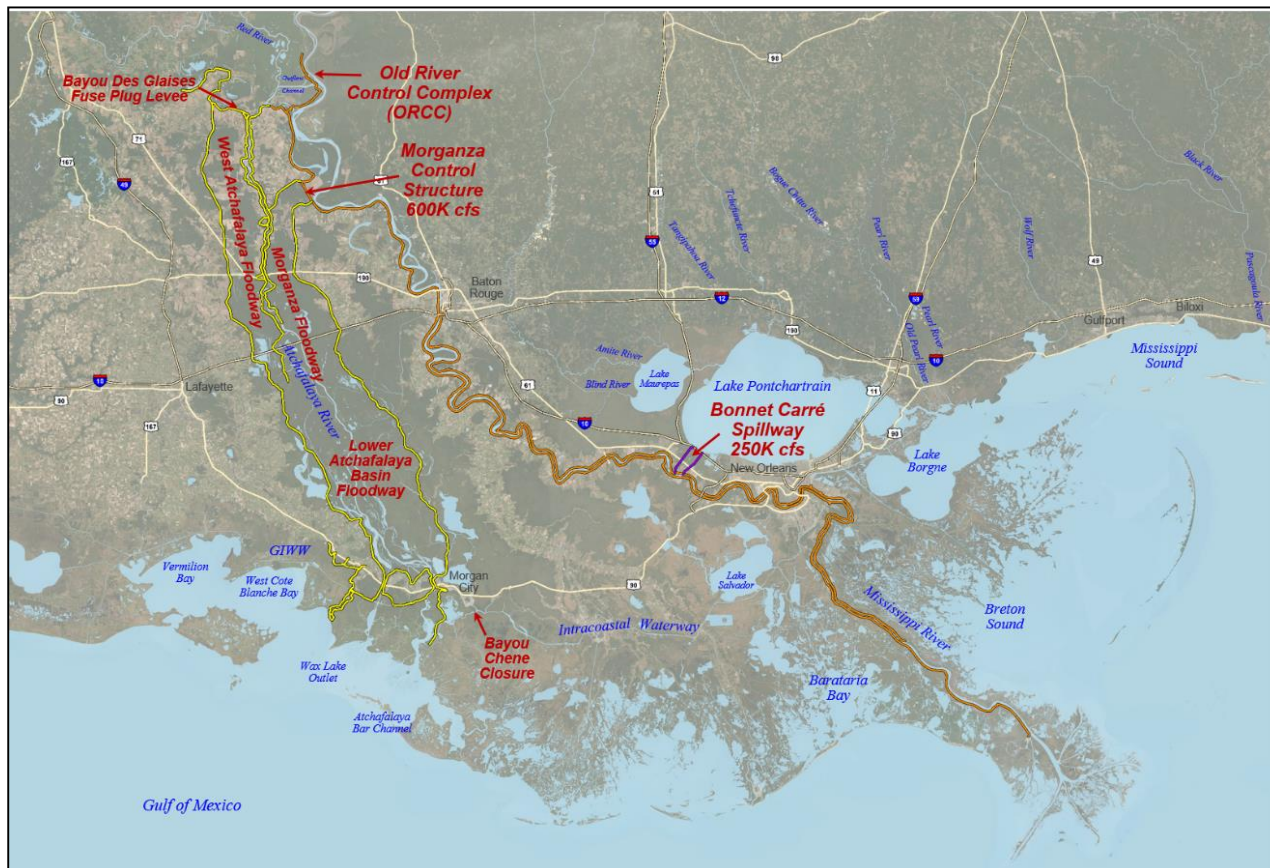
Flood Control Structures

Bonnet Carré Spillway

- **Purpose:** Maintain design flows of 1.25 million cfs or less through New Orleans
- **Opening Trigger:** 1.25 million cfs

Morganza Floodway

- **Purpose:** Maintain design flows of 1.5 million cfs or less through Baton Rouge
- **Opening Trigger:** 1.5 million cfs



Flood Control Structures

Bayou Chene Closure

- **Purpose:** Prevent backwater flooding from the Atchafalaya River into St. Mary, St. Martin, Terrebonne, Assumption, Iberville, and Lafourche parishes.
- **Closing Trigger:** EL 7.0 (MLG) @ Morgan City

